REPORT

DATE:

February 2, 2006

TO:

Energy and Environment Committee

Regional Council

FROM:

Jessica Kirchner, Associate Regional Planner, kirchner@scag.ca.gov, (213)236-1983

SUBJECT:

Conformity Finding for the Fine Particle Standard

EXECUTIVE DIRECTOR'S APPROVAL:

RECOMMENDED ACTION:

Approve the Transportation Air Quality Conformity Determination for the Fine Particle standard for the 2004 RTP and 2004 RTIP and recommend to the Regional Council to adopt Resolution 06-471-2.

(Regional Council action: to adopt Resolution 06-471-2)

SUMMARY:

The EEC released the Draft Fine Particle (PM2.5) Conformity Determination for public review and comment on November 22, 2005. The public comment period closed on January 5, 2006. A public hearing was held at SCAG on January 5, 2006. SCAG did not receive any public comments on the Draft Conformity Determination.

BACKGROUND:

The fine particle standard is a new federal health-based standard for particulate pollution that is 2.5 microns or smaller (particulate matter (PM2.5)). This new regulation requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (USDOT) on SCAG's conformity determination on the 2004 Regional Transportation Plan (RTP) and the 2004 Regional Transportation Improvement Program (RTIP) by April 5, 2006 or the region risks a conformity lapse. Non-attainment area designations for the new fine particle standard became effective on April 5, 2005, and an approved conformity determination is required by April 5, 2006, one year after the effective date. A conformity determination consists of regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs), the use of the latest planning assumptions, appropriate documentation of findings, interagency consultation, and public involvement. The Fine Particle conformity determination reaffirms all of the applicable conformity findings for the 2004 RTP and 2004 RTIP and addresses additional analyses required for the new Fine Particle standard.

FISCAL IMPACT:

Funds for air quality and conformity analysis are included in the FY 05/06 Overall Work Program.



Doc#117754

RESOLUTION No. 06-471-2

RESOLUTION OF

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS
TO ADOPT THE CONFORMITY DETERMINATION FOR THE FINE
PARTICULE (2.5) STANDARD FOR THE 2004 REGIONAL
TRANSPORTATION PLAN AND THE 2004 REGIONAL TRANSPORTATION
IMPROVEMENT PROGRAM

WHEREAS, the Southern California Association of Governments (SCAG) is the federally designated Metropolitan Planning Organization (MPO) pursuant to 23 U.S.C. §134(d) for the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura, and as such, is responsible for the preparation, adoption and regular revision of the Regional Transportation Plan (RTP) and the Regional Transportation Improvement Program (RTIP) pursuant to 23 U.S.C. §134 et seq. 49 U.S.C. §5303 et seq. and 23 C.F.R. §450.312;

WHEREAS, SCAG is the designated Regional Transportation Planning Agency (RTPA) under state law, and as such, is responsible for preparation of both the RTP and RTIP under California Government Code §§ 65080 and 65082 respectively;

WHEREAS, 42 U.S.C. § 7506(c)(1) requires SCAG's 2004 RTP and 2004 RTIP to conform with the applicable State Implementation Plan (SIPs) developed for the federal non-attainment and maintenance areas in the Mojave Desert Air Basin, the Ventura County portion of the South Central Coast Air Basin, the South Coast Air Basin, and the Salton Sea Air Basin;

WHEREAS, SCAG, as the designated MPO, is required to comply with Sections 174 and 176(c) and (d) of the Clean Air Act [42 U.S.C. §§ 7504, 7506(c) and (d)];

WHEREAS, 23 U.S.C. \$134(j)(2)(C) and 23 C.F.R. \$450.324(f)(2) requires the 2004 RTIP to be consistent with the 2004 RTP;

WHEREAS, 23 U.S.C. § 134 (c)(3) and 23 C.F.R. § 450.312 require SCAG, as the designated MPO, to maintain a continuing, cooperative and comprehensive transportation planning process in its development of the RTP and RTIP;

WHEREAS, SCAG has worked concurrently with local, state and federal jurisdictions in a continuing, cooperative and comprehensive manner as required by provisions of Federal and State law on the transportation planning processes;

WHEREAS, federal regulations at 23 C.F.R. § 450.332(e) require that in non-attainment and maintenance areas, funding priority be given to timely implementation of Transportation Control Measures (TCMs) contained in the applicable SIPs in accordance with the conformity regulations at 40 CFR Parts 51 and 93;

WHEREAS, non-attainment area designations for the new fine particle (PM2.5) standard became effective on April 5, 2005, and an approved conformity determination is required one year after the effective date;

doc#116621

WHEREAS, new federal conformity regulation for PM2.5 requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination by April 5, 2006;

WHEREAS, fine particle (PM2.5) non-attainment area in the SCAG region includes only the South Coast Air Basin (SCAB);

WHEREAS, the Southern California Transportation Conformity Working Group (TCWG) and the Energy and Environment Committee developed an efficient process to obtain an approved PM2.5 conformity determination for the 2004 RTP and RTIP;

WHEREAS, the PM2.5 conformity determination entails reaffirming previously approved analyses and findings for the 2004 RTP and 2004 RTIP;

WHEREAS, the conformity rule interim emissions test, known as *less than baseline year*, requires demonstration that implementing the 2004 RTP and the 2004 RTIP is not projected to increase emissions of fine particles (PM2.5) in future years above the emissions in the baseline year 2002.

WHEREAS, the Draft Conformity Determination for the PM2.5 Standard was available for public review and comment from November 22, 2005 to January 5, 2006;

WHEREAS, a public hearing was conducted at the Southern California Association of Governments on January 5, 2006;

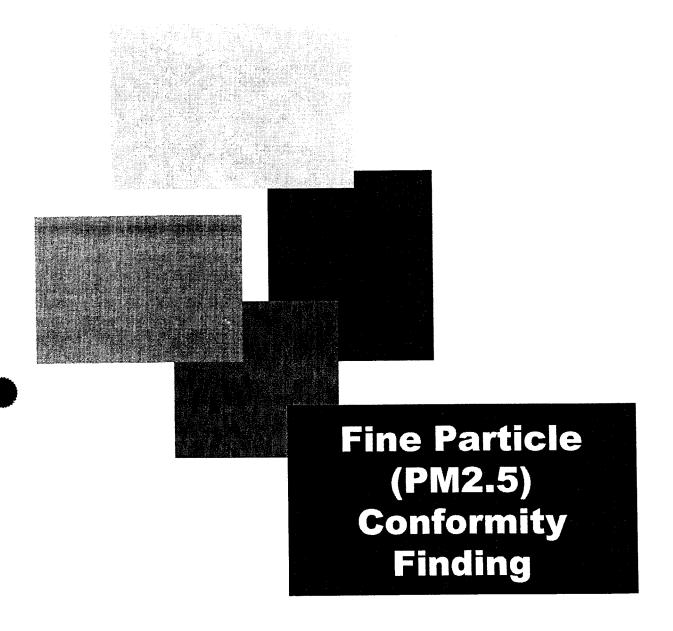
NOW, THEREFORE BE IT RESOLVED that

- (1) Southern California Association of Governments finds as follows:
 - (a) SCAG's 2004 RTP/RTIP regional emissions (build scenario) for direct PM2.5 emissions and PM2.5 precursors are less than the no-build emissions for the South Coast Air Basin;
 - (b) The conformity findings for both the 2004 RTP and the 2004 RTIP are reaffirmed for all applicable pollutants, including regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, applying the use of the latest planning assumptions and the latest approved emissions model, reaffirming consistency between the adopted 2004 RTIP and the adopted 2004 RTP, and reaffirming the process for interagency consultation and public participation;
 - (c) In addition to reaffirming the already conducted public involvement and interagency consultation test for the 2004 RTP/RTIP, the PM2.5 conformity underwent the appropriate process for interagency consultation and public participation;

(2) The Regional Council hereby adopts the conformity findings for all federal non-attainment and maintenance areas in the SCAG region, and authorizes the Executive Director or his designee to transmit the Conformity Determination for the PM2.5 Standard for the 2004 RTP and the 2004 RTIP to the Federal Transit Administration and the Federal Highway Administration to make the final conformity determination in accordance with the Federal Clean Air Act and EPA Transportation Conformity Rule at 40 CFR Parts 51 and 93.

Adopted by the Regional Council of the Southern California Association of Governments at a regular meeting on this 2nd day of February 2006.

TONI YOUNG	
101.11001.0	
President, SCAG	
Councilmember, City o	f Port Hueneme
Attest:	A
MARK PISAN	O
Executive Direct	ctor
Approved as to Legal F	orm:
	KAREN TACHIKI
	Legal Counsel



I. PREFACE

This conformity report covers all federally required analyses for the Fine Particle (PM_{2.5}) conformity determination for the 2004 Regional Transportation Plan (RTP) and 2004 Regional Transportation Improvement Program (RTIP). A conformity determination consists of regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs), the use of the latest planning assumptions, appropriate documentation of findings, interagency consultation, and public involvement. The Fine Particle conformity determination reaffirms all of the applicable conformity findings for the 2004 RTP and 2004 RTIP and addresses additional analyses required for the new Fine Particle standard. Additionally, per 40 CFR 93.122(g), the conformity determination relies on the previous regional emissions analyses as developed for the RTIP/RTP for NO2, CO and PM10 and for the 8-hour Ozone conformity determination approved by US Department of Transportation on May 12, 2005.

The Fine Particle standard is a new federal health-based standard for particulate pollution that is 2.5 microns or smaller (particulate matter (PM_{2.5})). This new regulation requires the Southern California Association of Governments (SCAG) to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination on the 2004 Regional Transportation Plan (RTP) and the 2004 Regional Transportation Improvement Program (RTIP) by April 5, 2006 or the region risks a conformity lapse. Non-attainment area designations for the new fine particle (PM_{2.5}) standard became effective on April 5, 2005, and an approved conformity determination is required by April 5, 2006, one year after the effective date.

Conformity Status of Adopted RTP and RTIP

The adopted 2004 RTP and 2004 RTIP conform to the air quality goals established by the State (air quality) Implementation Plan (SIP). Specifically, the 2004 RTP and RTIP will 1) not create new violations of the federal air quality standards, 2) not increase the frequency or severity of existing violations of the standards, and 3) not delay attainment of the standards.

The effective date for the conformity determination for the adopted 2004 RTP, including all of the air basins, is June 7, 2004, and the effective date of the federal conformity determination for the 2004 RTIP is October 4, 2004. The conformity determination for the adopted RTP is currently effective for three years; thus, the RTP conformity will remain effective until June 7, 2007. The conformity determination for the adopted RTIP is currently effective for two years; thus, the RTIP conformity will remain effective until October 4, 2006.

The Fine Particle conformity determination does not affect the existing conformity schedule for the RTP or RTIP. However, the new federal conformity regulation for PM_{2.5} requires the Southern California Association of Governments (SCAG) to make a positive conformity determination and receive approval from the United States Department of Transportation (US DOT) by April 5, 2006 or the region's conformity will lapse.

The Southern California Transportation Conformity Working Group (TCWG) discussed an efficient process to obtain an approved PM_{2.5} conformity determination for the 2004 RTP and RTIP (August 23, 2005 http://www.scag.ca.gov/tcwg/), and staff presented this process to the SCAG Energy and Environment Committee on September 1, 2005. This process entails reaffirming previously approved air quality conformity analyses and findings for the 2004 RTP and 2004 RTIP and addressing additional analyses required by the new Fine Particle standard. This approach parallels the process for the 8-hour ozone conformity determination.

Proposed process for Fine Particle conformity determination on the 2004 RTP and RTIP:

- 1. Conduct ongoing public participation and interagency consultation throughout the process.
- 2. Perform regional emission analysis. PM_{2.5} is a new air quality standard with no established emission budgets, and requires an *interim emissions test*. The interim emissions test requires SCAG to demonstrate that implementing the 2004 RTP and the 2004 RTIP is not expected to cause PM_{2.5} emissions to exceed emissions in year 2002. This PM_{2.5} conformity determination includes regional emissions analysis for direct PM_{2.5} emissions and NOx as a PM_{2.5} precursor. The modeling years are the 2002 baseline year and 2010, 2020, and 2030.
- 3. Reaffirm the existing conformity findings for the 2004 RTP and 2004 RTIP.
- 4. Release the draft conformity analyses and documentation for the new PM_{2.5} standard in November 2005 for a public comment period.
- 5. Hold a public hearing in January 2006.
- 6. Adopt the resolution making the final conformity determination in February 2006.
- 7. Send SCAG's Conformity Determination to the federal agencies for approval.
- 8. Approval by federal agencies before April 5, 2006.

Reaffirming approved conformity findings for NO2, Ozone, PM_{10} , and CO:

The fine particle conformity determination includes a reaffirmation of the approved conformity findings for both the 2004 RTP and the 2004 RTIP. This reaffirmation includes regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, the use of the latest planning assumptions and the latest approved emissions model, and the appropriate documentation of findings, including reaffirming the process for interagency consultation and public participation.

II. FINE PARTICLE (PM_{2.5}) CONFORMITY REQUIREMENTS

Introduction

The Southern California Association of Governments (SCAG), the Metropolitan Planning Organization (MPO) for Southern California, is mandated to comply with all applicable federal and state transportation and air quality regulations. As stated above, the new federal conformity regulation for fine particles (PM_{2.5}) requires SCAG to receive approval from the United States Department of Transportation (US DOT) on SCAG's conformity determination by April 5, 2006. Non-attainment area designations for the new for fine particle (PM_{2.5}) standard became effective on April 5, 2005, and an approved conformity determination is required one year after

the effective date. If US DOT does not approve SCAG's determination by April 5, 2006, then the region's conformity will lapse.

Fine Particle (PM_{2.5}) Non-attainment Area

The South Coast Air Basin is the only PM_{2.5} non-attainment area in the SCAG Region and is illustrated in the map attached at the end of this report.

Table 1: SCAG Region – Fine Particle (PM_{2.5}) Non-attainment Area

Non-attainment Area	Maximum Attainment Date
South Coast Air Basin	2010 with a possible 5 year extension to
(SCAB)	2015

Interim Emissions Test for Fine Particle (PM_{2.5})

Fine particulate matter (PM_{2.5}) is a new air quality standard, and requires an interim emissions test. An interim emissions test is required before new emissions budgets, which establish the maximum allowable level of specific emissions for particular future years, are developed as part of the PM_{2.5} Air Quality Management Plan/State Implementation Plan (SIP). The interim emissions test for PM_{2.5} requires SCAG to run the regional transportation model and the state emissions model (Burden/EMFAC2002) for the year 2002 and for future milestone years, including 2010, 2020, and 2030. The interim emissions test employed for this PM_{2.5} conformity determination is called the *baseline year test*, which entails comparing PM_{2.5} emissions modeled for future milestone years to PM_{2.5} emissions in baseline year 2002. In order to pass the baseline year test, SCAG is required to demonstrate that implementing the 2004 RTP and the 2004 RTIP is not projected to increase emissions of fine particles (PM_{2.5}) in future years above the emissions in the baseline year 2002.

The final PM_{2.5} rule requires PM_{2.5} non-attainment areas to consider both direct PM_{2.5} emissions and significant precursor emissions. The final federal PM_{2.5} rule adds PM_{2.5} precursors, such as nitrogen oxides (NOx), to the transportation conformity regulations because these gases react and cool to form fine particles. Prior to the submission of the proposed PM_{2.5} State Implementation Plan (SIP/Air Quality Management Plan), direct PM_{2.5} emissions and NOx emissions must be considered in PM_{2.5} conformity determinations. For this initial PM_{2.5} conformity determination, no federal significance findings have been made to add any additional PM_{2.5} precursors, although additional PM_{2.5} precursors may be required for future conformity determinations after a PM_{2.5} State Implementation Plan has been submitted to US EPA, if additional PM_{2.5} precursors are determined to be important contributors to PM_{2.5} problems in the South Coast Air Basin.

Summary of the 2004 RTP and 2004 RTIP Regional Emissions Analyses for PM_{2.5}

- Emissions for the PM2.5 conformity determination were calculated using the annual output from the EMFAC2002 emissions model. Annual emissions were calculated by multiplying daily emissions by 365. Emissions output is shown in the Appendix at the end of this report.
- ➤ Baseline emissions for the year 2002 were calculated by constructing a network for 2002 and interpolating socioeconomic data.
- Future year emissions (2010, 2020 and 2030) were taken from the 2004 RTP/RTIP.
- ➤ To pass the baseline year interim regional emissions test for the conformity finding, projected direct PM_{2.5} emissions and NOx emissions must be less than or equal to direct PM_{2.5} emissions and the NOx emissions in the baseline year 2002.
- ➤ Planning assumptions are documented in Appendix E of the 2004 RTP (p. E-28-E-42) and Technical Appendix Section II of the 2004 RTIP (p. II-5-II-17).
 - * EMFAC 2002 was used for Regional Emissions Analysis.
 - * Modeling networks for each milestone year are based on projects and completion dates included in Appendix I of the 2004 RTP and Technical Appendix Section II of the 2004 RTIP (beginning on p. II-60).

A summary of the regional emissions analysis (conformity findings) is tabulated below. Additional emissions data is provided in the Appendix at the end of this document.

24-hour PM_{2.5} Standard for South Coast Air Basin (SCAB)*

	Pollutant Said	2010	2020	2030
PM _{2.5}	Baseyear emissions	13.27	13.27	13.27
	2004 RTP/RTIP	12.49	12.06	12.72
NO _x	Baseyear emissions	715.34	715.34	715.34
	2004 RTP/RTIP	417.99	192.74	125.75

Regional emissions generated using EMFAC 2002. To pass, RTP/RTIP emissions must be equal or less than baseyear emissions.

Annual PM_{2.5} Standard for South Coast Air Basin (SCAB)

P	ollutant	2010	2020	2030
PM _{2.5}	Baseyear emissions	4844	4844	4844
	2004 RTP/RTIP	4559	4402	4643
NO _x	Baseyear emissions	261,099	261,099	261,099
	2004 RTP/RTIP	152,565	70,351	45,898

Regional emissions generated using EMFAC 2002. To pass, RTP/RTIP emissions must be equal or less than baseyear emissions.

^{*} Based on annual average emissions

Conformity Determinations

SCAG has determined the following conformity findings for the 2004 RTP and 2004 RTIP under the required federal tests for the new fine particle (PM_{2.5}) standard:

Regional Emissions Tests

Finding: SCAG's 2004 RTP/RTIP regional emissions for direct PM_{2.5} and NOx are less than the baseline year 2002 for the 24-hour and the annual standard in the South Coast Air Basin.

Financial Constraint/Timely Implementation

➤ Since the 2004 RTIP, one of the TCMs (CenterLine) is being replaced; currently the substitute projects and the financial changes are being processed and will be reflected in an amendment.

Reaffirmation of 2004 RTP/RTIP Conformity Tests

> Finding: SCAG reaffirms the applicable conformity findings for both the 2004 RTP/RTIP, which can be found at:

 $\underline{http://www.scag.ca.gov/rtp2001/2004draft/techappendix/FinalTechAppend.htm} \ and:$

http://www.scag.ca.gov/RTIP/final04/Sec1.pdf.

➤ This reaffirmation covers the findings for all applicable pollutants, including regional emissions analyses, financial constraint test, timely implementation of Transportation Control Measures (TCMs) report, applying the use of the latest planning assumptions and the latest approved emissions model, reaffirming consistency between the adopted 2004 RTIP and the adopted 2004 RTP, and reaffirming the process for interagency consultation and public participation.

Inter-agency Consultation and Public Involvement Test

Finding: In addition to reaffirming the already conducted public involvement and interagency consultation test for the 2004 RTP/RTIP, the fine particle (PM_{2.5}) conformity determination underwent an appropriate process for interagency consultation and public participation. This process included Transportation Conformity Working Group consultations on August 23, 2005 October 25, 2005, and December 27, 2005; Energy and Environment Committee updates on September 1, 2005 and November 3, 2005 and a briefing of the Subregional Coordinators on October 27, 2005. An announcement of the public comment period was placed on the SCAG website on November 22, 2005. Copies of the PM_{2.5} Conformity Determination packet were distributed to twelve regional libraries. A formal Public Hearing was held at SCAG's offices on January 5, 2006. This event was advertised in several regional newspapers in December of 2005, including the Imperial Valley Press, La Opinion, Long Beach



Press Enterprise, Los Angeles Times, Orange County Register, San Bernardino Sun, Riverside Press-Enterprise, and Ventura Star.

REGIONAL EMISSIONS ANALYSES

SOUTH COAST AIR BASIN (SCAB)

The South Coast Air Basin (SCAB) covers the urbanized portions of Los Angeles, Orange, Riverside, and San Bernardino counties, and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

Particulate Matter 2.5 – 24 Hour Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	12.49	12.07	12.71
Exhaust	10.48	9.49	8.83	9.20
Tire Wear	0.83	0.9	0.98	1.08
Brake	1.97	2.1	2.25	2.44
Total PM _{2.5} Exhaust	13.27	12.49	12.06	12.72
Baseyear Emissions	13.27	13.27	13.27	13.27
Difference (plan – baseyear)	N/A	-0.78	-1.21	- 0.55

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear.

Particulate Matter 2.5 – Annual Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	4559	4406	4639
Exhaust	3,825	3,464	3,223	3,358
Tire Wear	303	329	358	394
Brake	719	767	821	891
Total PM _{2.5} Exhaust	4,844	4,559	4,402	4,643
Baseyear Emissions	4,844	4,844	4,844	4,844
Difference (plan – baseyear)	N/A	-285	-442	-201

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear.

Oxides of Nitrogen - 24 Hour Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	417.99	192.74	125.75
Baseyear Emissions	715.34	715.34	715.34	715.34
Difference (plan - baseyear)	N/A	-297.35	-522.60	-589.59

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear

Oxides of Nitrogen - Annual Emissions

	YR 2002	YR 2010	YR 2020	YR 2030
2004 RTP/RTIP	N/A	152,565	70,351	45,898
Baseyear Emissions	261,099	261,099	261,099	261,099
Difference (plan – baseyear)	N/A	-108,534	-190,748	-251,201

Conformity finding requirement: PM_{2.5} plan emissions must be equal or less than baseyear.

SUMMARY OF EMISSIONS ANALYSIS OF ADDITIONAL CRITERIA POLLUTANTS

In addition to the regional emissions analysis for PM_{2.5}, below is a summary of the regional emissions analysis for additional criteria pollutants in the SCAG region. For more detailed tables, see Technical Appendix Section II of the 2004 RTIP (p. II-11 to II-59). All emissions are in tons per day.

South Coast Air Basin (SCAB)

Nitrogen Dioxide (NOx) -Winter

<u>NOx</u>	<u>YR 2005</u>	YR 2010	YR 2020	<u>YR 2030</u>
BUDGET	686.000	686.000	686.000	686.000
2004 RTIP	613.664	448.827	205.602	132.970

Conformity finding requirement: the NOx emissions must be equal or less than emission budgets.

Carbon Monoxide (CO) - Winter

<u>co</u>	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	3,361.000	3,361.000	3,361.000	3,361.000
2004 RTIP	2,597.739	1,809.900	859.679	529.757

Conformity finding requirement: the CO emissions must be equal or less than emission budgets.

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

ROG	YR 2006	YR 2010	YR 2020	YR 2030
BUDGET	251.000	251.000	251.000	251.000
2004 RTIP	245.350	189.074	106.433	72.495
<u>NOx</u>				
BUDGET	549.000	549.000	549.000	549.000
2004 RTIP	534.144	418.005	192.723	125.728
PM10				
BUDGET	166.000	166.000	166.000	166.000
2004 RTIP	165.927	163.375	161.520	163.893

Conformity finding requirement: the ROG, NOx, and PM10 emissions must be equal or less than emission budgets.

Ozone - Summer

Ozone Precursor					
ROG (VOC)	YR 2005	YR 2008	YR 2010	YR 2020	YR 2030
BUDGET	263.000	216.000	155.000	155.000	155.000
2004 RTP/RTIP	258.467	212.754	151.339	107.230	73.127
NOx					
BUDGET	546.000	546.000	352.000	352.000	352.000
2004 RTP/RTIP	542.271	453.459	349.	184.2	120.8

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Nitrogen Dioxide (NO2) - Winter

ľ	V	O	2	P	re	C	ul	'S	or

NOx	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	686.000	686.000	686.000	686.000
2004 RTP/RTIP	6153.664.091	448.586	205.751	132.980

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Mojave Desert Air Basin (MDAB)

(San Bernardino County portion of MDAB excluding Searles Valley)

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

PM10	YR 2005	YR 2010	YR 2020	YR 2030
2004 RTIP No-	7.875	9.066	10.966	13.262
Build				
2004 RTP Plan	7.837	8.843	10.889	13.046

Conformity finding requirement: the Plan scenario's emissions must be equal or less than the No-Build scenario's emissions.

Western Mojave Desert Air Basin (MDAB)

Ozone - Summer

Ozone Precursor					
ROG (VOC)	YR 2005	YR 2007	YR 2010	YR 2020	YR 2030
BUDGET	21.900	19.100	19.100	19.100	19.100
2004 RTP/RTIP	18.800	16.436	13.330	7.690	6.340
<u>NOx</u>	7 (000	52.100	52 100	52.100	52.100
BUDGET	56.000	52.100	52.100	52.100	-
2004 RTP/RTIP	52.510	48.38	41.750	19.310	4.360

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

Salton Sea Air Basin (SSAB) - Coachella Valley

Particulate Matter Less Than 10 Microns (PM10) – Annual Average

PM10	YR 2006	YR 2010	<u>YR 2020</u>	<u>YR 2030</u>
BUDGET	10.900	10.900	10.900	10.900
2004 RTIP Plan	9.168	9.484	10.044	10.671

Conformity finding requirement: the PM10 emissions must be equal or less than emission budgets.

Ozone - Summer

Ozone Precursor ROG (VOC) BUDGET 2004 RTP/RTIP	YR 2005	YR 2007	YR 2010	YR 2013	YR 2020	YR 2030
	4.600	4.100	4.100	4.100	4.100	4.100
	4.310	3.906	3.361	2.867	2.234	1.838
NOx BUDGET 2004 RTP/RTIP	12.300 12.008	11.100 11.016	11.100 9.305	11.100 7.623	11.100 4.913	11.100 3.460

Conformity finding requirement: the Build emissions must be less than the No-Build emissions.



Salton Sea Air Basin (SSAB) – Imperial County

Particulate Matter Less Than 10 Microns (PM10) - Annual Average

PM10	YR 2005	YR 2010	YR 2020	YR 2030
2004 RTIP No-Build	5.577	6.339	8.306	10.252
2004 RTIP Plan	5.574	6.334	7.798	9.610

Conformity finding requirement: the Plan scenario's emissions must be equal or less than the No-Build scenario's emissions.

Ozone - Summer

Ozone Precursor				
ROG (VOC)	YR 2005	YR 2010	YR 2020	YR 2030
No build (Baseline)	8.850	7.230	5.630	5.720
Build (Plan)	8.845	7.220	5.610	5.690
<u>NOx</u>				
No-Build (Baseline)	12.725	11.800	8.881	7.810
Build (Plan)	12.720	11.790	8.880	7.790

Conformity finding requirement: the Build emissions must be less than the No-Build emissions

Ventura County - South Central Coast Air Basin (VC/SCCAB)

Ozone - Summer

Ozone Precursor				
ROG (VOC)	YR 2005	YR 2010	YR 2020	YR 2030
BUDGET	14.300	14.300	14.300	14.300
2004 RTP/RTIP	14.180	10.670	6.160	4.170
<u>NOx</u>				
BUDGET	21.400	21.400	21.400	21.400
2004 RTP/RTIP	21.190	15.170	6.800	4.350

Conformity finding requirement: RTP/RTIP emissions must be equal or less than budget

WHEN STATE OF THE PROPERTY OF

U.S. Environmental Protection Agency

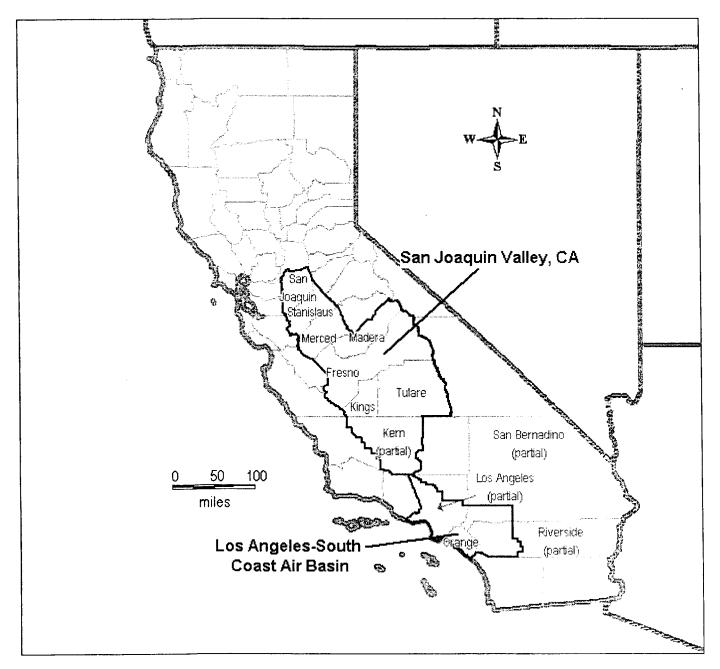
Fine Particle (PM 2.5) Designations

Recent Additions | Contact Us | Print Version Search:

GO

EPA Home > Air & Radiation > Six Common Air Pollutants > Particulate Matter > PM2.5 Designations > California Map

California PM 2.5 Designations Map



APPENDIX

YEAR 2002 - annual (02rr.zip)

Emfac2002 V2.2 Apr 23 2003 ** WīŚ Enabled ** Scen Year: 2002 -- Model Years: 1965 to 2002

Season : Annual

Run Date: 09/30/05 14:59:28

Page (1)
VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-miles, Fuel Consumption in 1000-gallons) 12.84 17.08 574.18 172.21 405.49 21.60 34.46 461.54 9.18 15.12 426.86 544.26 402.57 95.06 238.87 3000.18 3312.33 26.22 3430.73 15722.04 135.30 16432.18 104.75 1632.77 20.66 1758.17 62.40 1376.25 12.52 315.53 75.90 9792.14 92.18 1451.15 574.84 0.38 0.43 0.03 0.85 0.52 0.22 0.02 0.75 0.39 1.56 1.22 0.17 2.94 0.57 0.68 1.41 0.08 2.16 3.25 4.50 0.33 8.09 0.90 0.78 0.05 1.73 0.66 0.61 0.03 1.29 0.08 1.07 0.01 1.15 0.02 0.39 0.41 0.02 0.19 0.22 0.01 0.16 0.00 0.18 0.08 0.40 0.00 0.48 0.01 0.15 0.00 0.17 0.02 0.06 0.00 0.10 0.05 0.05 0.08 PM2.5ex 0.62 0.38 0.03 1.03 0.64 0.88 0.07 1.59 0.86 0.51 0.04 1.41 5.21 203.12 199.83 20.50 423.46 48.08 58.84 4.63 70.83 31.69 2.80 105.31 51.69 28.03 2.12 81.85 30.04 30.04 722.16 XON 373.72 104.27 80.09 3517.31 194.39 1966.37 46.28 2207.03 44.36 569.45 14.29 628.12 56.91 300.87 11.80 369.57 37.30 267.59 7.70 312.59 332.93 පි 5.38 59.16 0.87 65.40 4.52 26.83 0.39 31.74 ROG 24.04 191.50 3.07 218.60 6.81 27.33 0.60 34.74 40.76 304.79 4.92 350.47 4792546 32653716 56098 37502400 14664 14282200 6431900 984441 6015220 8480547 \$5664001 87191 64231700 2930883 7851 STARTS 1336680 5056427 1366891 2945 27221 237 23416 305820 2705 331939 3459 65698 489 69646 4362 32621 361 37342 12649 180280 1617 194547 30404 VMT 186984 5254661 60580 5502220 2069686 23302 54262 815063 18395 887720 862253 331019 VEHICLE 49513 40260 809120 12873 115150 9394690 8948519 2142500 HDT OTH SUM E E OTH HDT OTH SUM HDT ZEM Z ORA(SCAB) SBD(SCAB) LOS(SCAB) SCAB SUM RIV(SCAB) SUB AREA

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others Note:

Banning Area is included in SCAB, not in Coachella Valley

Coachella Valley

Banning Area is included in SCAB, not in Coachella Valley

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

a02SCAB.pm a02BRDN.SUM

NOx = 279.42 CO = 2796.69SCAB R2202 : VOC = 254.74 D:EmfacBasic/EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

000068

Run Date: 09/30/05 14:01:30

Season : Annual

YEAR 2010 - annualPLAN (10p.zip)
Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled **
Scen Year: 2010 -- Model Years: 1965 to 2010

oroz : mod mode				elim-000-i mi Taka	Enel Consumption in 1000-gallors	netion in 1000)-gallons)			Friday, Septe	riday, September 30, 2005	2:05:33 PM	PM	Page (1)
VEHICLE ON	-ROAD E	VEHICLE ON ROAD EMISSIONS (Emissions in tone, vivi in tone-mine tone tone tone tone tone tone tone to	ions in tone,	STARTS	ROG	8	XON	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesel
SUB AKEA		, Clark												
								1		6		900	774 67	2020.31
4,000	1	901700	14107	5023477	16.38	104.97	137.96	2.03	3	0.03	17.7	7 6	60.000	31.01
LOS(SCAB)	<u>.</u>	001007	10111	23841800	08 87	1015.22	12.96	3.47	0.41	<u>8</u>	4.97	6.9	77:6176	20.00
	N S	76/6840	160001	00000	2 3 4	27.00	16 94	0.28	0.00	0.0	0.29	0.02	19.91	01.271
	HIO N	64681	200976	38935200	117.59	1147.19	251.58	5.78	0.51	1.19	7.48	1.14	9633.86	2223.42
		2000								•	;		67.7	742.15
		61019	2473	1203401	3.41	21.51	29.21	0.44	0.05	0.02	0.48	0.05	14.02	455.15
ORA(SCAB)		51016	24/3	101011	32.66	211 35	70 77	1.07	0.16	0.41	1.64	0.31	3434.69	17.11
	LEM	2310804	70238	1431/10/	00.00	67.0	4 22	0.07	000	0.00	0.08	0.00	28.45	40.39
	OTH	26894	268	16916	0.00	241.52	2.59	1.58	0.18	0.44	2.20	0.39	3537.15	505.71
	SUM	2388720	74280	1363/400	51.74	341.36	7.00	2	}					
			•		•	1070	71 14	0.55	0 02	0.03	0.61	0.08	89.94	651.59
RIV(SCAB)	HDT	57553	4738	1383/33	4.14	14.07	16.73	690	60	0.23	1.00	0.18	1940.57	7.25
	LEM	1013900	39602	195/979	13.30	4.271	19:51	0.0	000	0.00	90.0	0.00	24.78	22.85
	HIO	23474	467	91601	5.0 c	200	10.7	1 27	0.12	0.27	1.66	0.26	2055.28	681.71
	SUM	1094930	44808	070799/	71.07	70.007	17.70		!					
	ļ			31,000	37 (17.30	30.50	38 0	0.02	0.01	0.43	0.05	52.33	468.33
SBD(SCAB)	HDT	41683	3133	20004	7.03	27.71	12.30	0.0	900	0.17	0.70	0.14	1497.59	4.83
	LEM	927501	30587	3/3/938	14.33	06.76	70.	500	000	000	0.03	0.00	14.78	18.95
	HLO	16085	301	96/6	10.0	7.00	76.96	600	000	0.20	911	0.20	1564.71	492.11
	SUM	985269	34041	6717410	67:11	123.31	£0.07	0.0) 			-		
										9. 0	77.6	0,43	40006	1401 40
SCAB CITM	HIDT	356442	25556	8680250	26.57	170.59	241.50	3.40	C. 18	0.15	5.74	7.0	20.061	66.33
	1 8.1	001770	325466	60174217	162.34	1637.00	156.09	9.66	0.71	1.93	8.30	75.1	10.75101	17.55
	18.1	7661416	2010	07550	187	47 68	25 74	0.43	0.00	0.05	0.45	0.05	147.98	254.29
	E E	131134	354105	68952100	192.74	1855.29	423.34	9.50	06:0	2.10	12.49	1.99	16790.99	3902.95
	200	10223000	20110	2014000										

Banning Area is included in SCAB, not in Coachella Valley

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

a10SCAB pm

a10BRDN.SUM

SCAB R2202 : VOC = 126.18 CO = 1431.68 NOx = 132.48

D:\EmfacBasic\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag ca.gov Conformity Analysis SCAG

YEAR 2020 - annualPLAN (20p.zip) Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2020 -- Model Years: 1975 to 2020

Run Date: 09/30/05 14:34:24

Season : Annual

Scen Year.	0707	Scen Year: 2020 Model I cals. 1772 to 2020	121 2											
NO E LOUISIN	LPOAD EN	Autoricy of Online BMISSIONS (Emissions in tone. VMT in 1000-mi	ns in tone. V	MT in 1000-miles	, Fuel Consum	ption in 1000-gallons	gallons)		******	Friday, Septe	Friday, September 30, 2005	2:37:36 PM	M. M.	rage (1)
VEHICLE ON	-ROAD E	VEHICLE ON NOAL EMESSION COMMENSES	TWA	STARTS	ROG	8	XON	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesel
SUB AREA		1 11 11 11 11								16111691345134				
										;	•	6	250 73	2507 59
				700000	20 11	7 C 2 3	57 43	1.20	- - -	- - -	1.47	00.0	7.00.1	
LOS(SCAB)	五	235357	16462	0966766	CO: 11			25.	0.43	P: 1	5 35	0.89	9511.64	1.30
	1.8M	5768144	193007	35247600	49.60	466.46	74.74	5.19	5 6		700	200	98 06	16.671
	H	77318	1960	67052	1.96	12.77	13.45	0.24	3.5	0.01	07.0	5 -	0060 23	3600 48
	SILM	6075820	211430	40844600	62.58	532.58	113.31	5.23	0.55	57.1	50.7	17.1	40.7.00	2
									!		•	200	97.07	628.00
1		.000	2000	1470195	7 5 A	11 95	12.82	0.28	0.05	0.02	0.32	0.02	10.70	07.070
ORA(SCAB)		10060	2070	7937.67.		146.06	17.65	91.1	91.0	0.42	1.74	0.31	3475.07	4.18
	L&M	2434533	72511	14914500	10.47	147.30	6.6	90.0		000	0.07	0.00	31.62	45.63
	OTH	30887	654	19469	0.52	3.88	3.42	0.00	3 5	34.0	7 13	0.40	3577.46	577.81
	SUM	2525020	76992	16413200	21.53	161.80	28.89	1.48	0.19	*:	6.13	5		
					į	:	25.01	07.0	0.00	0.04	0.46	0.11	99.43	892.77
RIV(SCAB)	HDT	75183	6109	1759893	3.23	10.1	19.73	0.33	3:		- 2	0 22	2253 71	2.58
	I & M	1215283	46262	7442810	91.6	89.56	2.	C.84	0.11	67.0	77:1	100	30.35	28 12
	1	78616	577	13318	0.35	2.95	1.97	0.03	0.00	0.00	9.0 1.04	00.0	65.67	77.07
	100	01087	52945	9216020	12.73	108.67	29.35	1.28	0.15	0.31	1.74	0.32	2582.49	723.40
	3014	0002161	24/17										1	
1				1631661	215	11 04	14.56	0.26	0.02	0.01	0.32	0.07	59.39	635.17
SBD(SCAB)	HOH	56033	7014	1/01/71		\$8.77	88 5	0.54	90.0	0.20	0.81	0.16	1672.86	19:1
	L&M	1071949	34007	7164/60	9.0	6.60	20.7		000	0.00	0.03	0.00	17.13	23.01
	OTH	19607	369	11943	77.0	1.09	7 6	50.0	200	0.23	1.17	0.23	1749.36	659.80
	SUM	1147590	39079	7857920	10.45	79.38	71.70	0.04						
						¥			16	91.0	5	0 \$3	488 17	4563.53
COAD CITM	HDT	476174	30499	10040742	18.94	92.49	104.53	71.7	77.0		4.74	40.0		70.00
SCAD SOM		81003701	346300	64179300	85.30	768.84	19.89	6.32	9.76	2.05	9.14	1.59	16913.29	20.35
	T COL	017171	2556	111782	3 04	71 31	20.37	0.38	0.0	0.05	0.41	0.05	167.05	70.0/7
	H M	11067500	380446	74331800	107.29	882.64	193.52	8.83	0.98	2.25	12.07	2.16	17568.64	4860.55
	1													

Note:

Banning Area is included in SCAB, not in Coachella Valley

SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck

OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

a20SCAB.pm a20BRDN.SUM SCAB R2202 : VOC = 59.81

NOx = 56.19CO = 647.11 D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

000070

YEAR 2030- PLAN (30P.zip) Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled **

Scen Year: 2030 -- Model Years: 1985 to 2030

Run Date: 09/30/05 10:37:29 Season : Annual

Scen Year:	7030	Scen Year: 2030 Model I cars. 1365 to 2050	207 03 006	•								•		Dog (1)
VEHICLEON	-ROAD EN	VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-m	ions in tone, V	MT in 1000-miles	s, Fuel Consun	uption in 1000	000-gallons)	******	********	Friday, September 30,	mber 30, 2005	₹ :	٦.	Tage to
SUB AREA	******	VEHICLE VMT STARTS	VMT	STARTS	ROG	8	NOX	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesei
													,	
					;	•	70 00	30.1	0.13	0.11	1.30	0.34	284.51	2893.12
(0 4 0 0) 0 1	TOD	096296	18872	6191405	8.53	40.10	79.24	6.5	3		5.73	700	10046.18	3.77
TOS(SCAD)		611117	204608	17365501	30.82	265.00	22.69	70.4	0.40	17.1	4 5	000	115 86	103 94
	Z ;	7011410	2170	79508	1 03	976	10.24	0.21	90.0	70.0	0.73	0.00	00:011	2000
	H M	90393 6504850	225985	43635500	40.40	314.28	71.17	5.33	0.59	1.34	7.26	131	10446.37	3090.63
	:									2	00.0	0.07	74.43	581.07
(400)	F	V1007	4156	1691243	2.28	9.54	8.52	0.25	70.0	0.02	0.30		00 (73)	¥1 -
UKA(SCAB)	<u> </u>	41.00	3037	16261605	6	86.66	6.87	1.20	91.0	0.45	1.82	0.34	3303.88	1.1.0
	L&M	0111767	74505	20000		376	267	0.05	0.00	0.0	90.0	0.00	40.00	49.07
	OTH	40310	802	96777	0.29	90 80	18.06	15.1	0.19	0.47	2.17	0.41	3678.31	631.90
	SUM	2630330	79461	17065200	14.4X	90.90	80.0	•						
					6		10.71	0.41	0.04	9	0.49	0.12	119.85	1081.00
RIV(SCAB)	HDT	97122	7374	2254109	3.30	77.61	14.91	7 -	2	0.32	1 43	0.25	2641.55	0.72
•	L&M	1409404	53472	8609005	0.77	90.57	6.6	1.01	200	9	40.0	00.0	41.83	34.01
	OTH	39914	764	16356	0.19	1.8/	4	5.63	200	0.37	1 98	0.38	2803.24	1115.72
	SUM	1546440	61611	10879500	10.24	0.77	20.17	*		}	•			
							,	;		,	76.0	000	74 16	810.66
(D) (D) (D)	TUH	75164	\$207	1692695	2.25	10.71	11.36	0.28	60.0	0.00	000	0.0	1004 27	0.41
Spr(SCAD)		0770001	20149	7307178	5.50	42.46	3.37	0.60	0.00	0.23	0.92	0.10	1920.50	
	LOS IN	9409071	203	15027	0.10	1.07	1.15	0.03	0.00	0.00	0.04	0.00	27.72	74.17
	HIS	60197	505	75051	7.87	54.25	15.87	0.92	0.13	0.27	1.31	0.28	1994.71	838.30
	SUM	1311980	44800	004016	6.	24:40								
						5 36	5	1 06	0.34	0.00	2.43	0.62	552.95	5365.86
SCAB SUM	HDT	508469	32609	11829447	16.30	15.57	00.67	66.1	7.0		2	1 40	18147 80	6.05
	1.8M	11280347	371822	68723322	22 .00	454.69	37.59	96.9	0.82	17.7	76.6	20.0	20100	305.05
		70770	4496	132282	1.65	14.87	15.56	0.33	0.01	0.02	0.38	0.00	76.1.77	203.03
	110	007407	11011	20776	23.00	545 13	126.16	9.19	1.08	2.44	12.71	2.38	18922.82	26/6.90
	SOM	0006611	411917	20100000	9									

Banning Area is included in SCAB, not in Coachella Valley
Banning Area is included in SCAB, not in Coachella Valley
SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others
L&M = Passenger car + Light Duty Truck (1) & (2) + Medium Duty Truck + Heavy Heavy Duty Truck
HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck
OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home
P30SCAB.pm
P30BRDN.SUM
SCAB R2202 : VOC = 36.81 CO = 367.26 NOx = 30.14

D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

YEAR 2010 - NBannual (10NB.zip) Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2010 -- Model Years: 1965 to 2010

Season : Annual

Run Date: 10/11/05 15:05:35

	0.50 2.23 2.10 4.83	10.46 10.39 13.32	10.00 7.56 12.85 70.40	76.93 4.94 18.95	87.89 57.22 54.29 99.38
	276.63	73.98	88.64	52.59	491.84
	9739.84	3533.04	2042.97	1534.50	16850.35
	79.97	28.45	24.78	14.78	147.98
	10096.43	3635.47	2156.38	1601.87	17490.16
	0.25	0.05	0.08	0.05	0.42
	0.90	0.33	0.20	0.14	1.58
	0.02	0.00	0.00	0.00	0.05
	1.18	0.39	0.27	0.20	2.05
	2.26	0.48	0.61	0.44	3.80
	5.24	1.70	1.05	0.72	8.70
	0.29	0.08	0.06	0.03	0.45
	7.79	2.25	1.72	1.20	12.96
	0.09	0.02	0.03	0.01	0.15
	1.14	0.42	0.24	0.18	2.00
	0.01	0.00	0.00	0.00	0.02
	1.23	0.45	0.27	0.21	2.17
	0.09 0.42 0.00 0.52	0.02 0.16 0.00 0.18	0.02 0.10 0.00 0.12	0.02 0.06 0.09	0.18 0.75 0.00 0.92
	2.08	0.44	0.55	0.40	3.48
	3.68	1.10	0.72	0.46	5.96
	0.28	0.07	0.04	0.03	0.43
	6.04	1.62	1.32	0.90	9.88
	135.67	28.76	42.10	30.37	236.89
	100.71	30.51	17.06	13.59	161.88
	16.94	4.23	2.61	1.96	25.74
	253.32	63.50	61.78	45.92	424.52
	105.41	21.43	26.51	17.44	170.78
	1062.88	320.27	181.34	142.27	1706.76
	27.00	8.67	7.28	4.74	47.68
	1195.29	350.37	215.12	164.46	1925.24
201	16.53	3.41	4.12	2.72	26.78
	103.42	34.54	16.25	14.72	168.93
	2.35	0.69	0.48	0.31	3.82
	122.31	38.64	20.84	17.74	199.53
SIAKIS	5023946	1295665	1359077	987446	8666130
	35181928	14660636	6533097	5887138	62262795
	59929	16916	10916	9798	97559
	40265800	15973200	7903090	6884390	71026500
NW	14194	3451	4654	3211	25511
	192308	71924	41283	31383	336896
	1746	568	467	301	3083
	208248	75945	46403	34894	365489
VEHICLE	206209	50715	56528	42447	355899
	\$705500	2366251	1056890	951616	10080253
	64681	26894	23474	16085	131134
	\$976390	2443860	1136890	1010150	10567300
	HDT L&M OTH	HDT OTH	HDT L&M OTH	HDT L&M OTH SUM	HDT L&M OTH SUM
SUB AREA	LOS(SCAB)	ORA(SCAB)	RIV(SCAB)	SBD(SCAB)	SCAB SUM
	VEHICLE VMI STAKIS AND	VEHICLE VMI STAKES COS COS	VEHICLE VMI STAKES LOS LOS 2.08 0.09 0.09 2.26 0.25 276.63 277.9 1.18 10096.43 277.9 1.18 10096.43 277.9 1.18 10096.43 277.9 1.18 10096.43 277.9 1.18 10096.43 277.9 1.18 10096.43 277.9 1.18 10096.43 277.9 1.18 10096.43 1.18	VEHICLE VMI STAKES LAST LOST 2.08 0.09 0.09 2.26 0.25 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.63 276.70 16.94 0.28 0.09 0.09 2.26 0.25 276.63 279.93 27.00 16.94 0.28 0.00 0.01 0.29 0.02 0.09 0.00 0.00 0.00 0.00 0.00 0.00	VEHICLE VMI STAXIS ACCUSAGE 1653 10541 13567 2.08 0.09 0.09 2.26 0.25 L&M 506209 14194 5023946 1653 10541 13567 2.08 0.09 0.09 2.26 0.25 OTH 54681 1746 59229 2.33 27.00 16544 0.28 0.09 0.09 2.24 0.90 OTH 5976390 208248 4026580 12.31 1195.29 253.32 6.04 0.52 1.14 5.24 0.90 SUM 5976390 208248 4026580 12.31 1195.29 253.32 6.04 0.52 1.18 1 L&M 2366251 17924 14660636 3.454 320.27 3.23 6.04 0.02 0.01 0.02 0.03 0.03 OTH 28894 15973200 38.64 35.037 4.23 0.07 0.01 0.02 0.03 0.03 OTH<

Banning Area is included in SCAB, not in Coachella Valley
SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others
L&M = Passenger car + Light Duty Truck (1) & (2) + Medium Duty Truck + Motor Cycle
L&M = Passenger car + Light Duty Truck (1) & (2) + Medium Duty Truck + Heavy Heavy Duty Truck
HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck
OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home
N10SCAB.pm
N10BRDN.SUM
SCAB R2202 : VOC = 131.36 CO = 1494.48 NOx = 137.42 PM10 = 7.77

D.\EmfacBasic\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

000072

YEAR 2020 - NBannual (20NB.zip)

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2020 -- Model Years: 1975 to 2020

Run Date: 10/11/05 15:57:11 Season : Annual

Scen Year:	7-0707	Scen Year: 2020 Model Leads, 1973 to 2020	717 00 716											
VEHICI E ON	ROAD EN	VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-mil	ons in tone, VI	MT in 1000-miles,	Fuel Consum	stion in 1000-gallons	gallons)	****	****	Tuesday, October 1	ober 11, 2005	5:06:09 PM	********	rage (1)
STIR ARFA		VEHICLE VMT STARTS	VMT	**************************************	ROG	8	XON	PM2.5ex	Tire W	Brake W	PM2.5sum	SOx	Gasoline	Diesel
SOD GOS														,
		22027	1,6590	8850755	11.28	54.45	56.15	1.26	0.11	0.11	1.49	0.30	268.09	2525.54
LOS(SCAB)	18 N	6171642	206510	37713216	53.68	509.25	45.84	4.30	0.46	1.23	5.98 0.76	0.98	88.96	179.91
	НТО	72318	1960	67052	1.96	12.77 576.48	13.45 115.43	5.81	0.58	1.33	7.72	1.30	10825.70	2718.27
	NO.	0401000	10077						•	6		900	73.03	534 39
ORA(SCAB)	HDT	60323	3871	1497110	2.59	12.21	12.82	0.28	0.02	0.02	1.86	0.36	3683.62	4.37
,	L&M	2545718	75824	15595689	9.39	134.60	3.70	90.0	000	0.00	0.07	0.00	31.62	45.63
	OTH	30887 2636930	654 80350	19469 17112300	22.51	170.69	29.52	1.59	0.19	0.48	2.26	0.42	3788.27	584.40
					-	15.63	18 38	0 30	0.03	0.04	0.46	0.10	98.94	840.15
RIV(SCAB)	HDT	70752	06/6	10201/	0.83	97.41	8.21	0.97	0.11	0.29	1.39	0.23	2493.18	2.72
	K K	1283318	46632	13318	0.35	2.95	1.97	0.03	0.00	0.00	0.04	0.00	29.35	28.12
	SIM	1382690	55175	9528980	13.29	115.99	28.45	1.41	0.15	0.33	1.89	0.34	2621.47	8/0/9
				,	•			70.0	0	100	0.32	90.0	57.35	616.28
SBD(SCAB)	HDT	54366	3980	1233856	2.12	10.75	13.37	17.0	0.02	0.21	0.86	0.16	1727.01	1.66
	L&M	1101300	35555	6754325	15.8	60.0/	1.54	500	000	00.0	0.03	00.0	17.13	23.01
	OTH	19607	369	11943	10.65	60.1 42.03	21.16	0.87	0.11	0.24	1.22	0.24	1801.47	640.96
	SUM	1175270	39904	8000120	10.05									
			60100	0167300	00 01	03 01	100 81	2.20	0.21	0.18	2.59	0.52	497.40	4516.38
SCAB SUM	HDT	422484	30182	9930/18	19.03	831 37	73 37	7.08	0.81	2.17	10.07	1.73	18372.48	21.58
	L&M	11101977	366/42	66776/0	20.5	21.31	20 37	0.38	0.01	0.02	0.41	0.05	167.05	276.67
	HI O	11675900	400478	77991200	113.36	945.70	194.56	89'6	1.03	2.37	13.08	2.30	19036.91	4814.62
	:													1

Banning Area is included in SCAB, not in Coachella Valley
Banning Area is included in SCAB, not in Coachella Valley
SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others
L&M = Passenger car + Light Duty Truck (1) & (2) + Medium Duty Truck + Motor Cycle
L&M = Passenger car + Light Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck
OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home
NZ0SCAB.pm
NZ0SCAB.pm
NZ0BRDN.SUM
SCAB RZ202 : VOC = 64.18 CO = 701.75 NOx = 60.13 PM10 = 8.98

D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

YEAR 2030 - NBannual (30NB.zip)

Run Date: 10/11/05 15:32:23

Season : Annual

Emfac2002 V2.2 Apr 23 2003 ** WIS Enabled ** Scen Year: 2030 -- Model Years: 1985 to 2030

Page (1) 628.08 193.94 3028.73 577.17 1.22 49.67 0.73 34.01 1030.69 727.83 755.67 305.05 995.95 0.42 5131.74 VEHICLE ON-ROAD EMISSIONS (Emissions in tone, VMT in 1000-miles, Fuel Consumption in 1000-gallons) 6.40 2830.79 296.84 11265.54 115.86 11678.25 3953.79 122.49 2961.97 67.49 2049.78 40.00 562.60 221.97 20808.11 75.77 41.83 1958.00 3838.01 3126.29 20023.52 Gasoline 0.33 1.07 0.03 1.42 0.07 0.36 0.00 0.44 0.12 0.27 0.00 0.40 0.07 0.19 0.00 0.27 SÖX PM2.5sum 1.35 6.60 0.23 8.18 0.30 1.97 0.06 2.34 0.50 1.68 0.04 2.23 0.33 0.97 0.04 1.34 Brake W 0.11 1.28 0.02 1.42 0.02 0.46 0.00 0.50 0.04 0.33 0.00 0.37 0.03 0.24 0.00 0.27 Tire W 0.12 0.48 0.00 0.62 0.02 0.00 0.20 0.04 0.00 0.17 0.03 0.09 0.00 0.12 PM2.5ex 1.12 4.82 0.21 6.14 2.05 8.03 0.33 0.25 1.32 0.05 1.64 0.41 0.03 1.68 0.26 0.66 0.03 0.95 9.79 3.44 1.15 14.37 8.35 7.31 2.67 18.34 67.82 40.44 XON 40.53 292.05 9.16 341.73 9.59 93.27 2.76 66.26 1.87 82.92 9.77 44.53 1.07 55.36 14.77 8 3.15 7.18 0.19 10.51 2.29 12.63 0.29 15.22 8.56 33.38 1.03 42.99 16.07 ROG 6057990 39799565 78598 45936100 8934934 1519739 7483619 9018390 132282 83907800 1679917 16356 15032 7925200 1334389 STARTS 6223003 2076749 1028000 72441032 18466 218031 2416 238912 4128 78733 802 83662 4675 39608 503 44786 6794 55496 764 63055 34063 261509 6541212 96393 6899120 1318430 67483 1222779 28169 40310 89481 1462764 39914 68452 2664206 2772960 292160 486925 11890958 204786 2582700 HDT L&M L&M OTH SUM HDT L&M OTH OTH L&M HDT ORA(SCAB) SBD(SCAB) LOS(SCAB) **SCAB SUM** SUB AREA RIV(SCAB)

L&M = Passenger car + Light Duty Truck(1) & (2) + Medium Duty Truck + Motor Cycle SUM = Light & Medium Duty Vehicle + Heavy Duty Truck + Others Banning Area is included in SCAB, not in Coachella Valley

HDT = Light Heavy Duty Truck (1) & (2) + Medium Heavy Duty Truck + Heavy Heavy Duty Truck OTH = Line Haul Vehicle + School Bus + Urban Bus + Motor Home

TO OFFICE NOx = 32.47CO = 403.22N30SCAB.pm N30BRDN.SUM SCAB R2202 : VOC = 39.54 D:\EmfacBasic\EmfacBurden.vbp - Hong Kim (213) 236-1904 kim@scag.ca.gov Conformity Analysis SCAG

Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	9576322 2867240 1525315 1695031 758090 16421998
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4078765 1383655 614719 676330 359204 7112673
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4447345 1514576 515463 589369 337259 7404012
-Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	3135803 939712 503431 522640 244477 5346063
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	32153636 10669848 5228154 5640028 2797439 56489106
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	9090292 1861244 5245811 22239131 11974061 6078650 56489189

-Home To Work/University Mode Choice Drive Alone % Person Trips

8366038 76.392

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1572766 14.361 527584 4.817 485066 4.429
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	9938802 9016660 1.1023
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	26990326 47.780 22848017 40.447 1219623 2.159 742246 1.314 4688894 8.301
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	49838343 34739205 1.4346
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	29585 1283152 211996 732781 2257514
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	21.2320 12.5133 13.4917 7.8935
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.7662 52.6685 30.3926 35.3838
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.8867 52.6027

Avg Arterial Speed	29.4061
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.6389 51.1901 29.1005 33.5780
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	343169768 27260191 370429958
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	9698491 620251 10318742
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1476769 100845 1577614
-Air Quality Statistics: Emissions by Tons of ROG By Air-Basin South Coast AB Ventura County	Air Basin 350.540

Total Population Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	10711323 3291738 2045211 2032156 865187 18945615
-Total Workers Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	4499020 1551664 850510 825662 405114 8131970
-Total Employement Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	5015790 1749993 715241 764667 381678 8627369
Total Household Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	3402537 1033974 678936 610580 275366 6001393
-Total Person Trips Los Angeles County Orange County Riverside County San Bernardino County Ventura County TOTAL	34474669 11755866 6664306 6473809 3096667 62465318
-Total Person Trips by Trip type Home Base Work Home Base University Home Base School Home Base Other Other Base Other Work Base Other TOTAL	10038697 2287694 5553078 24562146 13235601 6788180 62465396
-Home To Work/University Mode Choice	
Drive Alone	0000000

Drive Alone

% Person Trips

9067330

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1808504 14.672 753044 6.109 697436 5.658
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	10875833 9810709 1.1086
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	29171346 46.700 24976623 39.985 1881195 3.012 761013 1.218 5675141 9.085
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	54147969 37671461 1.4374
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	66572 1917405 313155 1067561 3364693
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.9556 12.3295 13.4450 7.8983
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	50.2362 52.9353 30.5155 35.5352
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	49.2588 52.8414

Avg Arterial Speed	29.4124
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5581 51.0685 28.9609 33.4181
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	369574810 28964031 398538840
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	10400258 660375 11060633
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1550466 104735 1655201

Air Quality Statistics: Emissions by Air Basin Tons of ROG By Air-Basin South Coast AB

Makal Domulation	
-Total Population Los Angeles County	11483177
Orange County	3433722
Riverside County	2608023
San Bernardino County Ventura County	2370524
TOTAL	929195 20824641
-Total Workers Los Angeles County	4065655
Orange County	4867685 1632560
Riverside County	1079787
San Bernardino County	966212
Ventura County TOTAL	438415
	8984659
-Total Employement	
Los Angeles County Orange County	5362879
Riverside County	1848112 942655
San Bernardino County	969385
Ventura County TOTAL	424479
TOTAL	9547510
-Total Household	
Los Angeles County	3762057
Orange County Riverside County	1064086 902812
San Bernardino County	749838
Ventura County	303602
TOTAL	6782395
-Total Person Trips	•
Los Angeles County	37397804
Orange County Riverside County	12270954
San Bernardino County	8516223 7726383
Ventura County	3347280
TOTAL	69258644
-Total Person Trips by Trip type	
Home Base Work	10907792
Home Base University	2364345
Home Base School Home Base Other	6213956
Other Base Other	27426698 14794165
Work Base Other	7551799
TOTAL	69258755
Home He World Heimoneiter Made G	
-Home To Work/University Mode Choice Drive Alone	9750798
% Person Trips	73.469

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1896798 14.292 874244 6.587 750187 5.652
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	11647595 10533654 1.1058
-Total Person Trips Mode Choice Drive Alone % Person Trips Carpool % Person Trips Transit % Person Trips School Bus % Person Trips Non Motorized % Person Trips	32357317 46.720 27550479 39.779 2171176 3.135 816423 1.179 6363249 9.188
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	59907796 41710811 1.4363
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	83877 2093890 487240 1163386 106480 3934873
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.7182 12.0654 13.2353 7.6746
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.7815 53.0731 30.2584 34.9990
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.7414 52.7577

Avg Arterial Speed	29.0992
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5040 50.9569 28.6129 32.9496
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	398648845 34773476 433422321
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	11390303 797756 12188060
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	1756903 134777 1891680
-Air Quality Statistics: Emissions by Tons of ROG By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	Air Basin 119.000 6.200 2.120 3.840 2.150 133.31
Tons of CO By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	868.560 39.990 19.980 37.890 22.010 988.43
Tons of NOX By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	206.460 6.880 3.260 10.090 5.260 231.95
Tons of PM10 By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley	18.740 .790 .450 .840

	Coachella Valley TOTAL	.550 21.37
Tons of	SOx By Air-Basin South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	2.110 .090 .050 .100 .060 2.41
GASOLIN	E in 1000 Gallons of South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	By Air-Basin 17118.230 903.700 486.440 727.320 526.300 19762
DIESEL	in 1000 Gallons By South Coast AB Ventura County Antelope Valley Victor Valley Coachella Valley TOTAL	y Air-Basin 4860.560 128.210 68.710 246.860 131.660 5436

-Total Population	
Los Angeles County	12196590
Orange County	3552955
Riverside County	3110387
San Bernardino County	2686063
Ventura County TOTAL	989771
IOIAB	22535766
-Total Workers	
Los Angeles County	5210346
Orange County	1701552
Riverside County	1280466
San Bernardino County	1097783
Ventura County TOTAL	469998
IOIAH	9760145
-Total Employement	
Los Angeles County	5656758
Orange County	1921795
Riverside County	1174109
San Bernardino County	1175961
Ventura County TOTAL	465497 10394120
·	10394120
-Total Household	
Los Angeles County	4118181
Orange County	1098477
Riverside County	1124411
San Bernardino County	890967
Ventura County TOTAL	332115 7564151
TOTAL	/504151
-Total Person Trips	
Los Angeles County	40170427
Orange County	12677725
Riverside County	10322321
San Bernardino County Ventura County	8843668
TOTAL	3621615 75635757
101111	75635757
-Total Person Trips by Trip type	
Home Base Work	11643519
Home Base University	2440866
Home Base School	6873343
Home Base Other Other Base Other	30100825
Work Base Other	16280651
TOTAL	8296683 75635887
1 C 11 mm	/303366/
-Home To Work/University Mode Choice	
Drive Alone	10295251
% Person Trips	73.098

Carpool % Person Trips Transit % Person Trips Non-Motorized % Person Trips	1947277 13.826 1049147 7.449 792582 5.627
Home-Work Vehicle Person Home-Work Vehicle Driver Average Vehicle Occupancy	12242526 11102494 1.1027
-Total Person Trips Mode Choice Drive Alone Person Trips Carpool Person Trips Transit Person Trips School Bus Person Trips Non Motorized Person Trips	35302362 46.674 29946970 39.594 2535466 3.352 870265 1.151 6980695 9.229
Total Vehicle Persons Total Vehicle Driver Average Vehicle Occupancy	65249331 45425978 1.4364
-Daily Transit Boarding Metrolink MTA bus MTA Rail Others Maglev TOTAL	101100 2229148 641751 1334329 381441 4687769
-Average Trip Length Home-To-Work Avg Travel Time Home-To-Work Avg Travel Distance All Trip Type Avg Travel Time All Trip Type Avg Travel Distance	20.7849 12.0435 13.2841 7.6567
-Avg Travel Speed (Light and Medium	Vehicles)
Total Modeling Area (Daily) Avg Mix-Flow Speed Avg HOV Speed Avg Arterial Speed Avg Speed (All Facilities)	49.6026 52.4633 29.8075 34.6119
SCAB Area (Daily) Avg Mix-Flow Speed Avg HOV Speed	48.5279 52.1935

Avg Arterial Speed	28.6304
Total Modeling Area (6-9 AM) Avg Mix Flow Speed Avg Hov Speed Avg Arterial speed Avg Speed (All Facilities)	46.5477 51.1098 28.0396 32.5494
-Vehicle Miles Traveled (VMT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	431796436 40806707 472603144
-Vehicle Hours Traveled (VHT) Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	12475358 940672 13416030
-Vehicle Hours Delayed Light and Medium Duty Vehicle Heavy Duty Truck All Vehicles and trucks	2012676 164719 2177395

-Air Quality Statistics: Emissions by Air Basin (1) Tons of ROG By Air-Basin South Coast AB